US-PAT-NO:

5640677

DOCUMENT-IDENTIFIER:

US 5640677 A

TITLE:

Best server selection in layered

cellular radio system

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Brief Summary Text - BSTX (9):

When handoff is effected between adjacent cells in a single layer cellular

radio architecture, the principle criterion used is the quality of the signal

received from the mobile station by the respective base stations capable of

providing radio service. That is, the quality of the signal received from the

mobile station by the base station currently serving the mobile is compared

with the quality of signal received by a base station serving an adjacent cell

and when the quality of signal in the latter exceeds the former, the mobile is

handed off to the base station serving the adjacent cell. In addition, a

signal quality increment, known as an offset or hysteresis, is also applied to

the signal quality difference value so that unless the signal quality in the

adjacent base station is at least "x" amount greater than the presently serving

base station, handoff does not occur. This prevents oscillating handoffs due

to signal quality perturbations in which the mobile is repeatedly handed back

and forth between two adjacent base stations.

Detailed Description Text - DETX (6):

Each of the cells C1-C10 is allocated a plurality of voice or speech

channels and at least one access or control channel, such as a forward control

channel (FOCC). The control channel is used to control or supervise the operation of mobile stations by means of information transmitted to and received from those units. Such information may include incoming call signals, outgoing call signals, page signals, page response signals, location registration signals, voice channel assignments, and maintenance instructions as the mobile station travels out of the radio coverage of one cell and into the radio coverage of another cell. The control or voice channels may operate

either in an analog or digital mode or a combination thereof.

L Number	Hits	Search Text	DB	Time stamp
1	0	((retry or retries or retrying or retried) and (pilot adj2 (signal or	USPAT;	2004/01/16 16:35
		signals)) and cdma and (register or registers or registration or	EPO; JPO;	
		registering or registered)).clm.	DERWENT	
2	0	((retry or retries or retrying or retried) and (pilot adj2 (signal or	USPAT;	2004/01/16 15:39
		signals)) and cdma and (register or registers or registration or	EPO; JPO;	
		registering or registered)).clms.	DERWENT	
3	0	((retry or retries or retrying or retried) and (pilot adj2 (signal or	USPAT;	2004/01/16 15:42
		signals)) and cdma and (register or registers or registration or	EPO; JPO;	
		registering or registered)).ab.	DERWENT	
4	12	((retry or retries or retrying or retried) and (pilot adj2 (signal or	USPAT;	2004/01/16 15:39
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5	0	((retry or retries or retrying or retried) and (pilot adj2 (signal or	USPAT;	2004/01/16 15:42
		signals)) and (register or registers or registration or registering or	EPO; JPO;	
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6	1	((retry or retries or retrying or retried) and (pilot) and (register or	USPAT;	2004/01/16 15:43
		registers or registration or registering or registered)).clm.	EPO; JPO;	
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7	0	((retry or retries or retrying or retried) and (pilot) and (register or	USPAT;	2004/01/16 15:43
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8	148	((retry or retries or retrying or retried) and (pilot) and (register or	USPAT;	2004/01/16 16:23
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